WEST Search History for Application 10530502

Creation Date: 2010101510:24

(374/110, 111, 112, 137, 141, 147, 135, 148, 30)![CCLS]PGPB, USPT, USOC, EPAB, JPAB ADJ 07-22-2008
((374/110, 111, 112, 137, 141, 147, 135, 148, 30)![CCLS]) and (optic$2 near fiber)PGPB, USPT, USOC, EPAB, JPAB ADJ YES 07-22-2008
((374/110, 111, 112, 137, 141, 147, 135, 148, 30)![CCLS]) and (optic$2 near fiber near distribut$3)PGPB, USPT, USOC, EPAB, JPAB ADJ YES 07-22-2008
20030126921PGPB ADJ YES 07-22-2008
374/$/ccls.PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-22-2008
(374/$/ccls.) and (heat$4 near optic$3 near fiber)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-22-2008
374/$.ccls.PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-22-2008
(374/$.ccls.) and (heat$4 near optic$2 near fiber)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-22-2008
(374/$.ccls.) and (heat$4 near15 optic$2 near fiber)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-22-2008
(374/$.ccls. and (heat$4 near15 optic$2 near fiber)) and (heat$4 near energy)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-22-2008
(optic$3 near fiber or optic$3 near sens$3 or optic$3 near probe or optic$3 near detect$3)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-22-2008
((optic$3 near fiber or optic$3 near sens$3 or optic$3 near probe or optic$3 near detect$3)) and (374/$.ccls.)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-22-2008
5385404.pn.USPT ADJ YES 07-24-2008
(5385404.pn.) and (IR or infrared or temperature or heat$4)USPT ADJ YES 07-24-2008
4560286.pn.USPT ADJ YES 07-24-2008
(4560286.pn.) and (diamond)USPT ADJ YES 07-24-2008
(374/$.ccls.) and (diamond)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
(374/$.ccls.) and (diamond and phosphor$2)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
(374/$.ccls. and (diamond)) and (infrared or IR or heat$4)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
(374/$.ccls. and (diamond)) and (infrared or IR or heat$4) same (diamond)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
(374/$.ccls. and (diamond) and (infrared or IR or heat$4) same (diamond)) and (heat$3 near15 diamond)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
((subterranean or wellbore or borehole or downhole)) same (diamond orand phosphor$2)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
((subterranean or wellbore or borehole or downhole)) same (diamond or phosphor$5)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
((subterranean or wellbore or borehole or downhole) same (diamond or phosphor$5)) and (374/$.ccls.)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
((subterranean or wellbore or borehole or downhole) same (diamond or phosphor$5)) and (166/$.ccls.)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
((subterranean or wellbore or borehole or downhole) same (diamond or phosphor$5) and 166/$.ccls.) and (temperature or thermal$2)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008

((subterranean or wellbore or borehole or downhole) same (diamond or phosphor$5) and 166/$.ccls. and (temperature or thermal$2)) and (optic$3 near fiber)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
6442304.pn.USPT ADJ YES 07-24-2008
(6442304.pn.) and (temperature)USPT ADJ YES 07-24-2008
(6442304.pn.) and (temperature near control$4)USPT ADJ YES 07-24-2008
(6442304.pn.) and (metal near container)USPT ADJ YES 07-24-2008
(6442304.pn.) and (pump$3)USPT ADJ YES 07-24-2008
20050149264 and (metal or steel)PGPB ADJ YES 07-24-2008
20050149264PGPB ADJ YES 07-24-2008
(20050149264) and (pump)PGPB ADJ YES 07-24-2008
(20050149264) and (valve$1)PGPB ADJ YES 07-24-2008
(distillat$3)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
((distillat$3)) and (374/$.ccls.)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
((distillat$3) and 374/$.ccls.) and (optic$3 near fiber or optic$2 near fibre)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
((distillat$3) and 374/$.ccls.) and (vapour or vapor or air or gas)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
((distillat$3) and 374/$.ccls. and (optic$3 near fiber or optic$2 near fibre)) and (vapour or vapor or air or gas)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
((distillat$3) and 374/$.ccls. and (vapour or vapor or air or gas)) and (remov$3 near vapo$2)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
3440865.pn.USPT ADJ YES 07-24-2008
(3440865.pn.) and (separat$3)USPT ADJ YES 07-24-2008
((distillat$3) and 374/$.ccls. and (vapour or vapor or air or gas) and (remov$3 near vapo$2)) and (separat$3)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 07-24-2008
2499105.pn.USPT ADJ YES 07-24-2008
(2499105.pn.) and (inlet or outlet)USPT ADJ YES 07-24-2008
(3440865.pn.) and (inlet or outlet)USPT ADJ YES 07-24-2008
(374/10, 11, 12, 43, 44, 161, 120, 141, 142, 208, 1627, 17, 29, 39, 110, 112, 135, 136, 137, 130)![CCLS]PGPB, USPT, USOC, EPAB, JPAB ADJ 07-24-2008
((374/10, 11, 12, 43, 44, 161, 120, 141, 142, 208, 1627, 17, 29, 39, 110, 112, 135, 136, 137, 130)![CCLS]) and (fiberoptic$2 or optic$2 fiber or optic$2 near fibre or optical ner probe or optical near detect$3)PGPB, USPT, USOC, EPAB, JPAB ADJ YES 07-24-2008
((374/10, 11, 12, 43, 44, 161, 120, 141, 142, 208, 1627, 17, 29, 39, 110, 112, 135, 136, 137, 130)![CCLS] and (fiberoptic$2 or optic$2 fiber or optic$2 near fibre or optical ner probe or optical near detect$3)) and (distillat$3)PGPB, USPT, USOC, EPAB, JPAB ADJ YES 07-24-2008
6442304.pn.USPT ADJ YES 12-23-2008
6442304.pn. and (distribut$3)USPT ADJ YES 12-23-2008
6442304.pn. and (distribut$3)USPT ADJ YES 12-23-2008
5821861.pn.USPT ADJ YES 12-23-2008
(5821861.pn.) and (distribut$3)USPT ADJ YES 12-23-2008
5821861.pn. and (fiber)USPT ADJ YES 12-23-2008
5821861.pn. and (fiber) and (control$4 or adjust$3 or automatic$3 or regulat$3)USPT ADJ YES 12-23-2008
5821861.pn. and (fiber) and (control$4 or adjust$3 or automatic$3 or regulat$3) and (parameter$1)USPT ADJ YES 12-23-2008
(5821861.pn. and (fiber) and (control$4 or adjust$3 or automatic$3 or regulat$3)) and (process)USPT ADJ YES 12-23-2008

374/$.ccls.PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-23-2008
(374/$.ccls.) and (react$3 near vessel)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-23-2008
(374/$.ccls. and (react$3 near vessel)) and (control$4 near parameter$1)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-23-2008
(5821861.pn. and (fiber) and (control$4 or adjust$3 or automatic$3 or regulat$3)) and (compressed air) and (temperature)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-23-2008
(5821861.pn.) and (pressure)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-23-2008
4703174.pn.USPT ADJ YES 12-23-2008
4703174.pn. and (distillation)USPT ADJ YES 12-23-2008
4703174.pn. and (distribut43)USPT ADJ YES 12-23-2008
(react$3 near vessel) same distribut$3 near (optical fiber or fiber near optic or optical fibre)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-23-2008
(react$3 near vessel) same (distribut$3 near optical fiber or fiber near optic or optical fibre)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-23-2008
((react$3 near vessel) same (distribut$3 near optical fiber or fiber near optic or optical fibre)) and (temperature and pressure)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-23-2008
(react$3 near vessel) same (distribut$3 near optical fiber or distribut$3 near fiber near optic or distribut$3 near optical fibre)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-23-2008
((react$3 near vessel) same (distribut$3 near optical fiber or fiber near optic or optical fibre)) and (temperature and distillation)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-23-2008
(optical fiber) same (fluid near drag)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-23-2008
(5821861.pn. and (fiber)) and (valve)USPT ADJ YES 12-23-2008
4703174.pn.USPT ADJ YES 12-23-2008
4703174.pn. and (valve)USPT ADJ YES 12-23-2008
2499105.pn.USPT ADJ YES 12-23-2008
2499105.pn. and (valve)USPT ADJ YES 12-23-2008
3440865.pn.USPT ADJ YES 12-23-2008
3440865.pn. and (valve)USPT ADJ YES 12-23-2008
reactor vessel and parameter and valveUSPT ADJ YES 12-23-2008
reactor vessel same parameter same valveUSPT ADJ YES 12-23-2008
5821861.pn.USPT ADJ YES 12-29-2008
(5821861.pn.) and (pressure)USPT ADJ YES 12-29-2008
4703174.pn.USPT ADJ YES 12-29-2008
(4703174.pn.) and (distillation)USPT ADJ YES 12-29-2008
(reation vessl or reactor) same (distillation)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-29-2008
(reaction vessl or reactor) near15 (distillation)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-29-2008
(reaction vessl or reactor) near15 (distillation) same (optical fiber or fiber near optic or distribut$3 near optic$2)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-29-2008
(reaction vessl or reactor) near15 (distillation) same (optical fiber or fiber near optic or distribut$3 near optic$2) and (temperature or pressure)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-29-2008
(reaction vessl or reactor) near15 (distillation) same (optical fiber or fiber near optic or

distribut$3 near optic$2) and (temperature or pressure) and (distillation) and (react$3)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-29-2008
(reaction vessl or reactor) near (distillation)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-29-2008
(reaction vessel or reactor) near (distillation)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-29-2008
((reaction vessel or reactor) near (distillation)) and (pressure and temperature and valves)PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD ADJ YES 12-29-2008
(reaction vessel or reactor) near (distillation)USPT ADJ YES 12-29-2008
((reaction vessel or reactor) near (distillation)) and (pressure and temperature and valves)USPT ADJ YES 12-29-2008
(5821861.pn.) and (stages)USPT ADJ YES 12-29-2008
7211702.pn.USPT ADJ YES 12-29-2008
(7211702.pn.) and (valve)USPT ADJ YES 12-29-2008
(7211702.pn.) and (valve) and (separat$3)USPT ADJ YES 12-29-2008

Prior Art Searches

Query	DB	Op.	Plur.	Thes.	Date
(distillation) near (column or vessel) same (temperature near sens$3 or temperature detect$3 or thermocouple or thermistor or RTD or probe or thermal)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
374/$.ccls.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
(374/$.ccls.) and ((distillation) near (column or vessel) same (temperature near sens$3 or temperature detect$3 or thermocouple or thermistor or RTD or probe or thermal))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
(vessel or conduit or reservoir or chamber or distillation) same (thermal map$3 ot thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010

(vessel or conduit or reservoir or chamber or distillation) near (thermal map$3 ot thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or conduit or reservoir or chamber or distillation) near (thermal map$3 ot thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)) and (fiber near optic$2)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or conduit or reservoir or chamber or distillation) near (thermal map$3 ot thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient) and (fiber near optic$2)) and (parameter near control$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or conduit or reservoir or chamber or distillation) near (thermal map$3 ot thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient) and (fiber near optic$2) and (parameter near control$4)) and (temperature near control$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or conduit or reservoir or chamber or distillation) near (thermal map$3 ot thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient) and (fiber near optic$2) and (parameter near control$4)) and (temperature near control$4) and (resct$3 near vessel)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or conduit or reservoir or chamber or distillation) near (thermal map$3 ot thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient) and (fiber near optic$2) and (parameter near control$4) and (temperature near control$4)) and (react$3 near vessel)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or conduit or reservoir or chamber or distillation) near (thermal map$3 ot thermal profile or	PGPB, USPT,	ADJ	YES		03-11-2010

thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)) and (react$3 near vessel)	USOC, EPAB, JPAB, DWPI, TDBD				
((vessel or conduit or reservoir or chamber or distillation) near (thermal map$3 ot thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient) and (react$3 near vessel)) and (temperature near control$4 or thermal near control$4 or heat$3 near control$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or conduit or reservoir or chamber or distillation) near (thermal map$3 ot thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient) and (react$3 near vessel)) and (temperature near control$4 or thermal near control$4 or heat$3 near control$4) and (optic$2 near fiber)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or conduit or reservoir or chamber or distillation) near (thermal map$3 ot thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient) and (react$3 near vessel) and (temperature near control$4 or thermal near control$4 or heat$3 near control$4) and (optic$2 near fiber)) and (distribut$3 near fiber)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
3567895.pn.	USPT	ADJ	YES		03-11-2010
4384793.pn.	USPT	ADJ	YES		03-11-2010
4440509.pn.	USPT	ADJ	YES		03-11-2010
4767219.pn.	USPT	ADJ	YES		03-11-2010
4823166.pn.	USPT	ADJ	YES		03-11-2010
(374/$.ccls.) and (distribut$3 near optic$2 near fiber)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
(vessel or conduit or reservoir or chamber or distillation or tank or react$3 near vessel) same (thermal map$3 or	PGPB, USPT,	ADJ	YES		03-11-2010

thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)	USOC, EPAB, JPAB, DWPI, TDBD				
((vessel or conduit or reservoir or chamber or distillation or tank or react$3 near vessel) same (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)) and (374/$.ccls. and (distribut$3 near optic$2 near fiber))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or conduit or reservoir or chamber or distillation or tank or react$3 near vessel) same (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)) and (374/$.ccls. and (distribut$3 near optic$2 near fiber)) and (temperature near control$4 or thermal$2 near control$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
(vessel or conduit or reservoir or chamber or distillation or tank or react$3 near vessel or oven or furnace) same (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or conduit or reservoir or chamber or distillation or tank or react$3 near vessel or oven or furnace) same (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)) and (distribut$3 near optic$2 near fiber)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or conduit or reservoir or chamber or distillation or tank or react$3 near vessel or oven or furnace) same (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient) and (distribut$3 near optic$2 near fiber)) and (control$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
5765948.pn.	USPT	ADJ	YES		03-11-2010
5825804.pn.	USPT	ADJ	YES		03-11-2010

03075647	EPAB, JPAB, DWPI	ADJ	YES		03-11-2010
374/$.ccls.	USPT	ADJ	YES		03-11-2010
(374/$.ccls.) and (verbitsky)	USPT	ADJ	YES		03-11-2010
(374/$.ccls. and (verbitsky)) and (optic$2 near fiber or fiberoptic)	USPT	ADJ	YES		03-11-2010
(374/$.ccls. and (verbitsky) and (optic$2 near fiber or fiberoptic)) and (pipe or pipeline)	USPT	ADJ	YES		03-11-2010
(react$3 near vessel near temperature near control$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((react$3 near vessel near temperature near control$4)) and ((vessel or conduit or reservoir or chamber or distillation or tank or react$3 near vessel or oven or furnace) same (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((react$3 near vessel near temperature near control$4) and (vessel or conduit or reservoir or chamber or distillation or tank or react$3 near vessel or oven or furnace) same (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)) and (optic$2 near fiber or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
(vessel or reservoir or chamber or distillation or tank or react$3 near vessel or oven or furnace) near (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
(vessel or reservoir or chamber or distillation or tank or react$3 near vessel or oven or furnace) near (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near	PGPB, USPT, USOC, EPAB, JPAB,	ADJ	YES		03-11-2010

distribution or temperature near gradient) same (distribut$3 near optic$2 near fiber or distribut$3 near fiberoptic)	DWPI, TDBD				
(vessel or reservoir or chamber or distillation or tank or react$3 near vessel or oven or furnace) near (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient) same (optic$2 near fiber or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or reservoir or chamber or distillation or tank or react$3 near vessel or oven or furnace) near (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient)) and (374/$.ccls.)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
((vessel or reservoir or chamber or distillation or tank or react$3 near vessel or oven or furnace) near (thermal map$3 or thermal profile or thermal distribution or thermal gradient or temperature near profile or temperature near map$4 or temperature near distribution or temperature near gradient) and 374/$.ccls.) and (control$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-11-2010
(374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687)![CCLS]	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
(374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS]	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
(IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3)	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
((IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or	PGPB, USPT, USOC, EPAB,	ADJ	YES		10-08-2010

integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3)) and ((374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS])	JPAB				
(fluid or gas or air or liquid) near (flow or path or passage)	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
((fluid or gas or air or liquid) near (flow or path or passage)) and ((IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) and (374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS])	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
((fluid or gas or air or liquid) near (flow or path or passage) and (IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) and (374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS]) and (temperature)	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
(IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010

curtain)					
((IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain)) and ((374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS])	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
(test$3) near (stand or chamber or apparatus or conduit or vessel or reservoir or cabinet or furnace or conveyor)	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
((test$3) near (stand or chamber or apparatus or conduit or vessel or reservoir or cabinet or furnace or conveyor)) and ((IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain) and (374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS])	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
(IC or integrated circuit or printed near circuit or circuit near board or or printed near board or wiring near board or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain)	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
(printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated	PGPB, USPT,	ADJ	YES		10-08-2010

circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain)	USOC, EPAB, JPAB				
((printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain)) and ((374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS])	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
((printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain) and (374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS]) and ((IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain) and (374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132,	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010

133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS])					
((printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain) and (374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS]) and ((test$3) near (stand or chamber or apparatus or conduit or vessel or reservoir or cabinet or furnace or conveyor))	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
((printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain) and (374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS] and (test$3) near (stand or chamber or apparatus or conduit or vessel or reservoir or cabinet or furnace or conveyor)) and (revers$3)	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
((printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated circuit or semiconductor or chip or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain) and (374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136,	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010

99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS] and (test$3) near (stand or chamber or apparatus or conduit or vessel or reservoir or cabinet or furnace or conveyor) and (revers$3)) and (revers$3 near flow)					
(printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated circuit or semiconductor or chip or memory module or memory cell or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain)	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
(test$3) near (stand or chamber or apparatus or conduit or vessel or reservoir or cabinet or furnace or conveyor or oven or burn$2 oven)	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
((test$3) near (stand or chamber or apparatus or conduit or vessel or reservoir or cabinet or furnace or conveyor or oven or burn$2 oven)) and ((printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated circuit or semiconductor or chip or memory module or memory cell or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain))	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
((test$3) near (stand or chamber or apparatus or conduit or vessel or reservoir or cabinet or furnace or conveyor or oven or burn$2 oven) and (printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated circuit or semiconductor or chip or memory module or memory cell or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010

overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain)) and ((374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS])					
((test$3) near (stand or chamber or apparatus or conduit or vessel or reservoir or cabinet or furnace or conveyor or oven or burn$2 oven) and (printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated circuit or semiconductor or chip or memory module or memory cell or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain) and (374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS]) and (temperature)	PGPB, USPT, USOC, EPAB, JPAB	ADJ	YES		10-08-2010
7596431.pn.	USPT	ADJ	YES		10-08-2010
7596431.pn. and (temperature)	USPT	ADJ	YES		10-08-2010
(7596431.pn. and (temperature)) and (revers$3)	USPT	ADJ	YES		10-08-2010
11839035	PGPB	ADJ	YES		10-08-2010
revers$3 near fluid near flow	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(revers$3 near fluid near flow) and ((test$3) near (stand or chamber or apparatus or conduit or vessel or reservoir or cabinet or furnace or conveyor or oven or burn$2 oven) and (printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated circuit or semiconductor or chip or memory module or memory cell or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010

void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain) and (374/178, 30, 31, 32, 33, 34, 35, 36, 4, 5, 137, 152, 165, 166, 1, 135, 141, 147, 148;702/130, 131, 132, 133, 134, 135, 136, 99;361/687;324/500, 537, 760, 765, 766, 767, 768, 769)![CCLS])					
11644158	PGPB	ADJ	YES		10-08-2010
(11644158) and (revers$3)	PGPB	ADJ	YES		10-08-2010
(revers$3 near fluid near flow) and ((printed near circuit or circuit near board or printed near board or wiring near board or IC or integrated circuit or semiconductor or chip or memory module or memory cell or die or electronic component) same (test or fault or damage or ageing or aging or failure or malfunction$3 or abnormality or hot spot or hotspot or flaw or integrity or quality or wear or void$1 or leak$3 or disbond$3 or unbond$3 or deterioration or overtemperature or overheat$3 or thermal near defect or thermal near damag$3) same (fluid or gas or liquid or water or air) same (flow or path or passage or air curtain))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(distillation column or distillation system) same (blast furnace)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
((distillation column or distillation system) same (blast furnace)) and (optic$2 fiber or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(distillation column or distillation system) same (blast furnace) and (temperature)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
		ADJ	YES		10-08-2010

(distillation column or distillation system) same (optic$2 near fiber or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
20080312406	PGPB	ADJ	YES		10-08-2010
(20080312406) and (optic$2 fiber or fiberoptic or temperature)	PGPB	ADJ	YES		10-08-2010
(distillation column or distillation system or distillati$2) same (optic$2 near fiber or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(distillati$2) same (optic$2 near fiber or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
5356220.pn.	USPT	ADJ	YES		10-08-2010
(20080312406) and (temperature)	PGPB	ADJ	YES		10-08-2010
(ester exchang$3 reactor) and (temperature)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
((ester exchang$3 reactor) and (temperature)) and (optic$2 fiber)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(reactor vessel) same (optic$2 fiber or fiberoptic)	PGPB, USPT, USOC, EPAB,	ADJ	YES		10-08-2010

	JPAB, DWPI, TDBD				
((reactor vessel) same (optic$2 fiber or fiberoptic)) and (temperature)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
4703174.pn.	USPT	ADJ	YES		10-08-2010
(distillat$3 or weir or downcomer or tray) same (optical fiber or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(distillat$3 or weir or downcomer or tray) same (optical fiber or fiberoptic) same (temperature or thermal)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(distillat$3 or weir or downcomer or separat$3 column) same (optical fiber or fiberoptic) same (temperature or thermal)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(distillat$3 or weir or downcomer or separat$3 column) same (temperature or thermal)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(distillat$3 or weir or downcomer or separat$3 column) same (temperature or thermal)	USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010

374/$.ccls.	USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(374/$.ccls.) and ((distillat$3 or weir or downcomer or separat$3 column) same (temperature or thermal))	USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(374/$.ccls. and (distillat$3 or weir or downcomer or separat$3 column) same (temperature or thermal)) and (skin temperature or wall temperature)	USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(distillat$3 or reactor) same (wall temperature)	USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(distillat$3 or reactor) near (wall temperature)	USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
((distillat$3 or reactor) near (wall temperature)) and (optic$2 near fiber or fiberoptic)	USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
((distillat$3 or reactor) near (wall temperature)) and (374/$.ccls.)	USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
((distillat$3 or reactor) near (wall temperature)) and (374/$.ccls.) and (weir)	USPT, USOC, EPAB, JPAB,	ADJ	YES		10-08-2010

	DWPI, TDBD				
((distillat$3 or reactor) near (wall temperature) and 374/$.ccls.) and (distillat$3 or separat$3)	USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
((distillat$3 or reactor) near (wall temperature)) and (separat$3 near liquid)	USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
((distillat$3 or reactor) near (wall temperature)) and (separat$3 near liquid) and (weir)	USPT	ADJ	YES		10-08-2010
((distillat$3 or reactor) near (wall temperature) and (separat$3 near liquid)) and (downcomer or tray)	USPT	ADJ	YES		10-08-2010
((distillat$3 or reactor) same (wall temperature)) and (downcomer or tray or weir)	USPT	ADJ	YES		10-08-2010
(downcomer same tray same weir)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
((downcomer same tray same weir)) and (wall temperature)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(esterification or ester exchange reactor or stirred tank reactor or CSTR) and (wall temperature)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-08-2010
(esterification or ester exchange reactor or stirred tank reactor or CSTR) same (wall temperature)	PGPB, USPT, USOC,	ADJ	YES		10-08-2010

	EPAB, JPAB, DWPI, TDBD				
(wall or skin) same (optical fiber or fiber optic or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
(wall or skin) near (optical fiber or fiber optic or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
((wall or skin) near (optical fiber or fiber optic or fiberoptic)) and (distillation or reactor or vessel)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
(wall or skin) near (optical fiber or fiber optic or fiberoptic) same (temperature)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
((wall or skin) near (optical fiber or fiber optic or fiberoptic) same (temperature)) and (distillation or reactor or vessel)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
((wall or skin) near (optical fiber or fiber optic or fiberoptic) and (distillation or reactor or vessel)) and (temperature)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010

((wall or skin) near (optical fiber or fiber optic or fiberoptic)) and (temperature)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
(wall) near (distillation) same (optical fiber or fiber optic or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
(wall) near (rect$3) same (optical fiber or fiber optic or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
(wall) near (react$3) same (optical fiber or fiber optic or fiberoptic)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
((wall) near (react$3) same (optical fiber or fiber optic or fiberoptic)) and (temperature or thermal$2)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
((wall) near (react$3) same (optical fiber or fiber optic or fiberoptic)) and (wound or helical or spiral or coiled)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
7399446.pn.	USPT	ADJ	YES		10-14-2010
(7399446.pn.) and (distillation or control$3)	USPT	ADJ	YES		10-14-2010
		ADJ	YES		10-14-2010

((wall) near (react$3) same (optical fiber or fiber optic or fiberoptic)) and (temperature control)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD				
((wall) near (react$3) same (optical fiber or fiber optic or fiberoptic)) and (automatic$4 temperature control)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
(automatic temperature control) same (reaction vessel)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
(automatic temperature control) same (reactor)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
(automatic temperature control) near (reactor)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-14-2010
0731906	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-15-2010
3567895.pn.	USPT	ADJ	YES		10-15-2010
4384793.pn.	USPT	ADJ	YES		10-15-2010
4440509.pn.	USPT	ADJ	YES		10-15-2010

4703175.pn.	USPT	ADJ	YES		10-15-2010
4767219.pn.	USPT	ADJ	YES		10-15-2010
4823166.pn.	USPT	ADJ	YES		10-15-2010
4827487.pn.	USPT	ADJ	YES		10-15-2010
4830513.pn.	USPT	ADJ	YES		10-15-2010
5094702.pn.	USPT	ADJ	YES		10-15-2010
5251274.pn.	USPT	ADJ	YES		10-15-2010
5348396.pn.	USPT	ADJ	YES		10-15-2010
(weir and downcomer and tray) and (distillation or catalyst or petroleum or polymer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-15-2010
(weir and downcomer and tray) same (distillation or catalyst or petroleum or polymer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-15-2010
(weir and downcomer and tray) near (distillation or catalyst or petroleum or polymer)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-15-2010
5821861.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-15-2010
(5821861.pn.) and (metal)	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	ADJ	YES		10-15-2010

	TDBD				
(5821861.pn.) and (metal) and (stainless steel)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		10-15-2010